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(54) EXPANSIVE GAS SEAL MEMBER

(57) Abstract:

PURPOSE: To prevent unburnt component from leaking out of a gas seal member by causing a sheet made of unexpanded vermiculite, heat-resistant inorganic fiber, ceramic powder of high specific surface area, and inorganic binder to carry platinum family metal.

CONSTITUTION: A sheet or felt is

mae of 20-77weight% of unexpanded vermiculite, 20-77weight% of heat-resistant inorganic fiber, 2.7-18weight% of ceramic powder having a high specific surface area, and 0.3-3weight% of inorganic binder. This sheet or felt is dipped in a water solution of platinum family metallic salt, dried, and heat-treated so that certain amount of platinum family metal is carried to form an expansive gas seal member. The unexpanded vermiculite is a mica mineral having the property of expanding about ten times in the direction perpendicular to cleavage and losing water when heat-treated.

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